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TECH CENTER 1600/2900

1600

RAW SEQUENCE LISTING

DATE: 10/23/2003

PATENT APPLICATION: US/09/641,528B

TIME: 11:02:13

Input Set : E:\Sub Seq List 2060_0100001.txt

Output Set: N:\CRF4\10232003\I641528B.raw

4 <110> APPLICANT: Sette, Alessandro
 5 Sidney, John
 6 Southwood, Scott
 7 Chesnut, Robert
 8 Celis, Esteban
 9 Grey, Howard
 11 <120> TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO HUMAN PAPILLOMAVIRUS
 12 USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS
 14 <130> FILE REFERENCE: 2060.0100001
 16 <140> CURRENT APPLICATION NUMBER: US 09/641,528B
 17 <141> CURRENT FILING DATE: 2000-08-15
 19 <150> PRIOR APPLICATION NUMBER: US 60/172,705
 20 <151> PRIOR FILING DATE: 1999-12-10
 22 <160> NUMBER OF SEQ ID NOS: 51505
 24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 10
 28 <212> TYPE: PRT
 29 <213> ORGANISM: Artificial Sequence
 31 <220> FEATURE:
 32 <223> OTHER INFORMATION: Peptide Derived from Human Papillomavirus
 34 <400> SEQUENCE: 1
 35 Ala Met Leu Ala Lys Phe Lys Glu Leu Tyr
 36 1 5 10
 39 <210> SEQ ID NO: 2
 40 <211> LENGTH: 8
 41 <212> TYPE: PRT
 42 <213> ORGANISM: Artificial Sequence
 44 <220> FEATURE:
 45 <223> OTHER INFORMATION: Peptide Derived from Human Papillomavirus
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 48 Ala Thr Val Pro Cys Trp Asn Tyr
 49 1 5
 52 <210> SEQ ID NO: 3
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 54 <212> TYPE: PRT
 55 <213> ORGANISM: Artificial Sequence
 57 <220> FEATURE:
 58 <223> OTHER INFORMATION: Peptide Derived from Human Papillomavirus
 60 <400> SEQUENCE: 3
 61 Ala Val Gln Val Leu Lys Arg Lys Tyr
 62 1 5
 65 <210> SEQ ID NO: 4

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66 <211> LENGTH: 11
67 <212> TYPE: PRT
68 <213> ORGANISM: Artificial Sequence
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71 <223> OTHER INFORMATION: Peptide Derived from Human Papillomavirus
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75 1 5 10
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80 <212> TYPE: PRT
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Peptide Derived from Human Papillomavirus
86 <400> SEQUENCE: 5
87 Asp Ile Val Asp Asp Ser Glu Ile Ala Tyr
88 1 5 10
91 <210> SEQ ID NO: 6
92 <211> LENGTH: 11
93 <212> TYPE: PRT
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
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100 Asp Ser Asp Thr Gly Glu Asp Leu Val Asp Phe
101 1 5 10
104 <210> SEQ ID NO: 7
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106 <212> TYPE: PRT
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
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123 <223> OTHER INFORMATION: Peptide Derived from Human Papillomavirus
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127 1 5 10
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132 <212> TYPE: PRT
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:

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Output Set: N:\CRF4\10232003\I641528B.raw

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148 <220> FEATURE:
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158 <212> TYPE: PRT
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161 <220> FEATURE:
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165 Glu Leu Asn Asp Lys Asn Trp Lys Ser Phe
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177 <400> SEQUENCE: 12
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179 1 5 10
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203 <400> SEQUENCE: 14
204 Glu Leu Ser Gln Met Val Gln Trp Ala Tyr
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Input Set : E:\Sub Seq List 2060_0100001.txt

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217 Glu Thr Glu Thr Ala His Ala Leu Phe
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221 <210> SEQ ID NO: 16
222 <211> LENGTH: 9
223 <212> TYPE: PRT
224 <213> ORGANISM: Artificial Sequence
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230 Glu Thr Glu Thr Pro Cys Ser Gln Tyr
231 1 5
234 <210> SEQ ID NO: 17
235 <211> LENGTH: 9
236 <212> TYPE: PRT
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
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243 Glu Val Tyr Gly Asp Thr Pro Glu Trp
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247 <210> SEQ ID NO: 18
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250 <213> ORGANISM: Artificial Sequence
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253 <223> OTHER INFORMATION: Peptide Derived from Human Papillomavirus
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256 Phe Ile Val Asn Asp Asn Asp Tyr
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260 <210> SEQ ID NO: 19
261 <211> LENGTH: 9
262 <212> TYPE: PRT
263 <213> ORGANISM: Artificial Sequence
265 <220> FEATURE:
266 <223> OTHER INFORMATION: Peptide Derived from Human Papillomavirus
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270 1 5
273 <210> SEQ ID NO: 20
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275 <212> TYPE: PRT
276 <213> ORGANISM: Artificial Sequence

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DATE: 10/23/2003

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Input Set : E:\Sub Seq List 2060_0100001.txt

Output Set: N:\CRF4\10232003\I641528B.raw

278 <220> FEATURE:
279 <223> OTHER INFORMATION: Peptide Derived from Human Papillomavirus
281 <400> SEQUENCE: 20
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283 1 5
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287 <211> LENGTH: 8
288 <212> TYPE: PRT
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: Peptide Derived from Human Papillomavirus
294 <400> SEQUENCE: 21
295 Phe Leu Thr Ala Leu Lys Arg Phe
296 1 5
299 <210> SEQ ID NO: 22
300 <211> LENGTH: 11
301 <212> TYPE: PRT
302 <213> ORGANISM: Artificial Sequence
304 <220> FEATURE:
305 <223> OTHER INFORMATION: Peptide Derived from Human Papillomavirus
307 <400> SEQUENCE: 22
308 Phe Met Ser Phe Leu Thr Ala Leu Lys Arg Phe
309 1 5 10
312 <210> SEQ ID NO: 23
313 <211> LENGTH: 8
314 <212> TYPE: PRT
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: Peptide Derived from Human Papillomavirus
320 <400> SEQUENCE: 23
321 Phe Ser Glu Leu Val Arg Pro Phe
322 1 5
325 <210> SEQ ID NO: 24
326 <211> LENGTH: 9
327 <212> TYPE: PRT
328 <213> ORGANISM: Artificial Sequence
330 <220> FEATURE:
331 <223> OTHER INFORMATION: Peptide Derived from Human Papillomavirus
333 <400> SEQUENCE: 24
334 Phe Thr Phe Pro Asn Glu Phe Pro Phe
335 1 5
338 <210> SEQ ID NO: 25
339 <211> LENGTH: 8
340 <212> TYPE: PRT
341 <213> ORGANISM: Artificial Sequence
343 <220> FEATURE:
344 <223> OTHER INFORMATION: Peptide Derived from Human Papillomavirus
346 <400> SEQUENCE: 25
347 Phe Val Asn Ser Lys Ser His Phe

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/641,528B

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TIME: 11:02:14

Input Set : E:\Sub Seq List 2060_0100001.txt
Output Set: N:\CRF4\10232003\I641528B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:46478; Xaa Pos. 1,2,3
Seq#:46515; Xaa Pos. 1,2,3
Seq#:46537; Xaa Pos. 1,2,3
Seq#:46552; Xaa Pos. 1,2,3
Seq#:46553; Xaa Pos. 1
Seq#:46639; Xaa Pos. 1,2,3
Seq#:46845; Xaa Pos. 1,2
Seq#:46896; Xaa Pos. 1,2,3
Seq#:46912; Xaa Pos. 1
Seq#:47013; Xaa Pos. 1,2,3
Seq#:47014; Xaa Pos. 1,2
Seq#:47238; Xaa Pos. 1,2,3
Seq#:47239; Xaa Pos. 1,2
Seq#:47282; Xaa Pos. 1,2,3
Seq#:47309; Xaa Pos. 1,2,3
Seq#:47324; Xaa Pos. 1,2,3
Seq#:47399; Xaa Pos. 1,2,3
Seq#:47565; Xaa Pos. 1,2,3
Seq#:47618; Xaa Pos. 1,2,3
Seq#:47619; Xaa Pos. 1,2
Seq#:47620; Xaa Pos. 1
Seq#:47675; Xaa Pos. 1,2,3
Seq#:47690; Xaa Pos. 1,2,3
Seq#:47770; Xaa Pos. 1,2,3
Seq#:47938; Xaa Pos. 1,2,3
Seq#:48003; Xaa Pos. 1,2,3
Seq#:48018; Xaa Pos. 1,2,3
Seq#:48110; Xaa Pos. 1,2,3
Seq#:48111; Xaa Pos. 1,2
Seq#:48182; Xaa Pos. 1,2
Seq#:48242; Xaa Pos. 1,2,3
Seq#:48259; Xaa Pos. 1,2,3
Seq#:48260; Xaa Pos. 1
Seq#:48349; Xaa Pos. 1,2,3
Seq#:48350; Xaa Pos. 1,2
Seq#:51503; Xaa Pos. 1,5,6,8,9
Seq#:51504; Xaa Pos. 1,3,5,6,7
Seq#:51505; Xaa Pos. 3